

CD8 hinge

ζ(TCR)

Xhol

Vβ

Linker

Vα

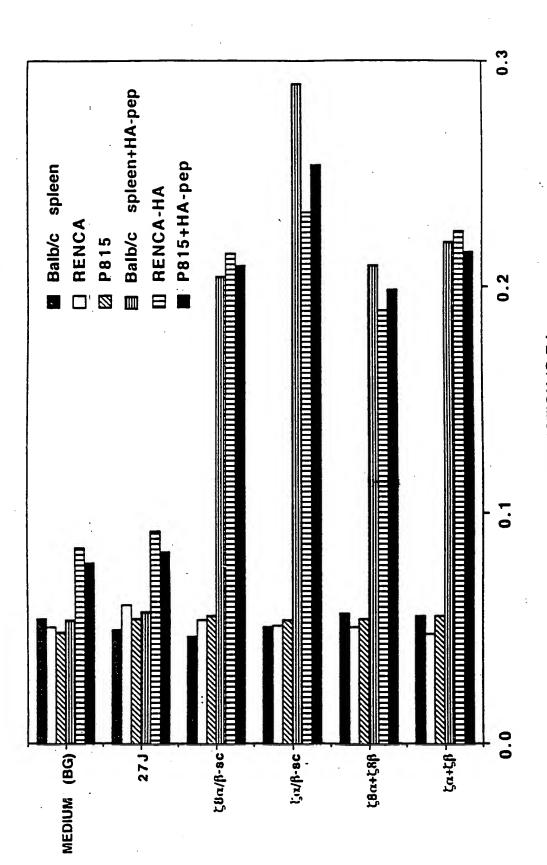
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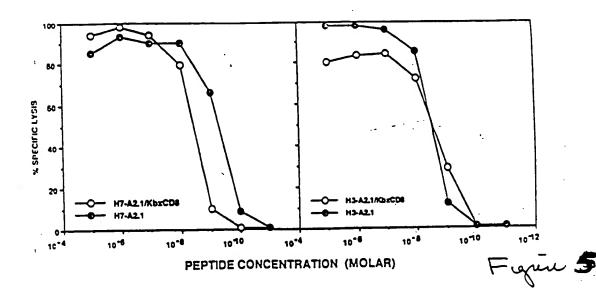
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XL	Ė	9			18	-		27			36			49			54
CIC	GAG	ATG	CAG	AGG	AAC	CIG	GGA	GCT	GTG	cre	GGG	ATT	CTG	TGG	GTG	CAG	ATT
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		63			72			81			90			99			108
TGC	TGG		AAA	GAA		CAA	GTG		CAG	AGT	CCC	GCA	TCC	TTG	GTT	CTG	CAG
	• • •		• • •			• • •	•••		• • •				•	•••			
C	W	L	ĸ	E	Q	Q	V	Q	Q	s	P	A	s	L	V	L	Q
		117			126			135			144			153			162
GAG	GGG		AAC	GCA		CTC	CAG		AGC	TTT		ATC	TTT	ACA	AAC	CAG	GTG
			• • •			· · ·		• • •				• • •	•••		• • •		
E	G	E	N	A	E	L	Q	С	S	F	s	I	F	T	N	Q	V
		, , ,			180			189			198			207			216
CAG	TGG	ىلىنى 12.7	TAC	CAA		CCT	GGG		AGA	CTC			CTG		TAC	TAA	CCT
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Q	W	F	Y	Q	R	P	G	G	R	L	v	s	L	L	Y	N :	P
											050			263			270
		225			234	000		243	N C E	TCC	252	ארם	GTC	261 27T	AAA	GAA	_
TCT	GGG	ACA	AAG	CAG	AGT		AGA									•••	• • •
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4 <u>.</u> E		279			288			297			306			315	۔ ۔		324
:jCGC	AGC	TCT	TTG	CAC	ATT	TCC	TCC		CAG	ATC	ACA	GAC	TCA	GGC	ACT	TAT	CIC
R	s	s	L	H	I	s	s	s	Q	I	T	D	s	G	T	Y	L
m [*]	3	3	ם	н	-	3	•		•	-	•		_	_			
担		333			342			351			360			369			378
.≟TGT	GCC	TCA	AAT	TCT	GGA	GĠA	AGC	AAT	GCA	AAG	CTA	ACC	TTC	GGG	AAA	GGC	ACT
<i>i</i>	•••		•••							ĸ	L	T	F	G	ĸ	G	T
C	A	s	N	8	G	G	s	N	A	X		•	•	•	••		_
11		387			396	•		405			414			423	Baur	iF	432
AAA	CTC	TCT	GTT	AAA	TCA	GGT	GGC	GGA	GGG	TCT	GGC	GGG	GGT	GGA	TCC	, GGG	GGT
[=====================================				•		• • •			• • •								
i≓ K i≟	L	s	V	K	S	<u>G</u>	<u>G</u>	G_	G	_ s		G_		<u> </u>	<u> </u>		G_
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GGA	GGC	TCA	GAG	GCT	GCA	GTC	ACC	CAA		CCA			: AAG	GTG	GCA	GTA	ACA
							• • •		• • •			·		• • •	• • •		• • •
G	G	s	Ξ.	A	A	V	T	Q	S	P	R	N	K	. 7	A	V	T
		405			EA4			513			E22	:		531	L		540
GG A	GGA	495 AAG	GTG) ACA	504 TTG	AGC	тст			ACT						: ATC	TAC
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		549				666							ר כאי		5 די דכו		
		' CGG	CAG	GAC	ACG		CAT		CIG	, AG(r GGT
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		603			612			621			630) 			9 <i>a</i> ma		648
				GAG											C TC		A CCA
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AGO DAA GAG AAC TOO TOO COO ATT TOO GAG TOO GOT ACC TOO TOT ACA TOA E A 738 747 720 729 GTG TAC TTC TGT GCC AGC GGT GAG ACA GGG ACC AAC GAA AGA TTA TTT TTC GGT T Ε Ε G N G 765 774 783492 792 801 810 CAT GGA ACC AAG CTG TCT GTC CTG ACT AGT AAC TCC ATC ATG TAC TTC AGC CAC H G T K L S V L T N S 846 855 837 828 CD8 HINGE K P T T P A P R FVPVFLPA 909 900 891 873 882 CCA ACA CCG GCG CCC ACC ATC GCG TCG CAG CCC CTG TCC CTG CGC CCA TCT AGT R P PTIASQPLS 963 954 945 936 TCT AGA GAT CCC AAA CTC TGC TAC CTG CTG GAT GGA ATC CTC TTC ATC TAT GGT RDPKLCYLLDGILFIY 999 1017 1008 981 990 GTC ATT CTC ACT GCC TTG TTC CTG AGA GTG AAG TTC AGC AGG AGC GCA GAC GCC v ILTALFLRV K F S R S 1071 1035 1044 1053 . 1062 CCC GCG TAC CAG CAG GGC CAG AAC CAG CTC TAT AAC GAG CTC AAT CTA GGA CGA E L N 2 Chain. N Q Y N L 1134 1107 1116 1125 1089 1098 AGA GAG GAG TAC GAT GTT TTG GAC AAG AGA CGT GGC CGG GAC CCT GAG ATG GGG P E M G D K R R G R D R E E Y D V L 1161 1170 1179 1152 GGA AAG CCG AGA AGG AAG AAC CCT CAG GAA GGC CTG TAC AAT GAA CTG CAG AAA G K P R R K N P Q E G, L Y N E L 1233 1206 1215 1224 1197 GAT AAG ATG GCG GAG GCC TAC AGT GAG ATT GGG ATG AAA GGC GAG CGC CGG AGG G K Y 1287 127€ 1260 1269 1251 GGC AAG GGG CAC GAT GGC CTT TAC CAG GGT CTC AGT ACA GCC ACC AAG GAC ACC STATKDT Y Q G L G K G H D G Ĺ 1332 NE371E 1323 1314 TAC GAC GCC CTT CAC ATG CAG GCC CTG CCC CCT CGC TAA GCG GCC GCC ACC GCG Y D A L H M Q A L P P R * A A A T A



IL-2 PRODUCTION (O.D.)



CCC AAG GCA CTG ATG TTC ATG
TGA GAC AAA GTC CCC AAT CT
CAG
CTG CAG CTG CTC CTC AAG TAC TAT TC
TCC CGG AGA AGG TCC ACA GTT CCT CTT T
GAA GCA GCA GAG GGT TTG AAG CCA CAT AC

GGC AGG TCT TCA GTT GCT TAT GAA GGT GGT TCC TCT TCA GGG TCC AGA ATA TGT Va6 GCG AAG AAC TCA CCC TGG ACT GTT CAT Va7 GAG CTC CAC AGA CAA CAA GAG GAC CGA GCA Va8 ۷α9 GAG CTG CGA CGT TCC TTA GTG ACT GTG 3. Val0 CCT CGT CAG CCT GTT GTC CAA TCC TTC TGG Vall CAG CCT CAT CAA TCT GTT CTA CTT GGC T Val2 CCA CCA GGG ACC ACA GTT TAT CAT TCA A Val4 ACC TGG AGA GAA TCC TAA GCT CAT CAT Va15 AGG TCT TGT GTC CCT GAC AGT CCT GGT T 4. CAA GCA AAC ACT GTA GTG CAG AGC CCT TCC Val6 Va17 CAA GAC ATC CAT AAC TGC CCT ACA G Val8 GTG TAT GAA ACC CAG GAC AGT TCT TAC Vα19 CCG TAT TTC TTT CTT ATG TTG TTT TGG AT Vα20 CAA AGC TCT CCA TCG CTG ACT GTT CAA G

Beta Groups

	·
VB1	ATC TAA TCC TGG GAA GAG CAA AT
Vß2	GGC GTC TGG TAC CAC GTG GTC AA
Vß3	GTG AAA GGG CAA GGA CAA AAA GC
Vβ4	GAT ATG CGA ACA GTA TCT AGG C
V\$5.1	ACA TAA TCA AAG GAA AGG GAG AA
2.	
VB6	TCC TGA TTG GTC AGG AAG GGG

TCC TGA TTG GTC AGG AAG GGC AA
TAC CTG ATC AAA AGA ATG GGA GA
ATA ACC ATG ACA ATA TGT ACT GG
ATA ACC ACA ACA ACA TGT ACT GG
ATA GCC ACA ACT ACA TGT ACT GG

3.	
Vβ9	AGC TTG CAA GAG TTG GAA AAC CA
Vβ10	GAT TAT GTT TAG CTA CAA TAA TA
VB11	ACA AGG TGA CAG GGA AGG GAC AA
VB12	ACC TAC AGA ACC CAA GGA CTC AG
VB13	CAG TTG CCC TCG GAT CGA TTT TC

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GCC GAG ATC AAG GCT GTG GGC AG
AGA ACC ATC TGT AAG AGT GGA AC
CAT CAA ATA ATA GAT ATG GGG CA
GTA GTC CTG AAA AAG GGC ACA CT
CAT CTG TCA AAG TGG CAC TTC A

Leu Ser Ile Lys Pro

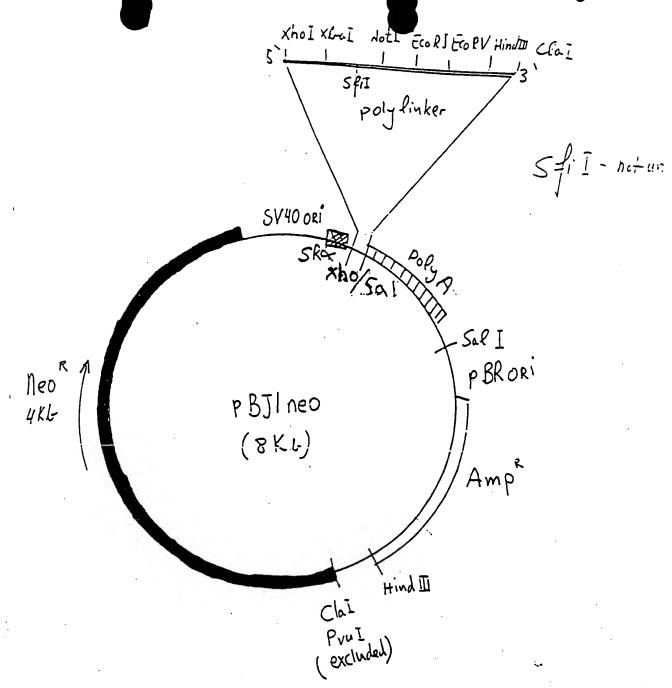
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	ATC			9	c	18	755		27	, 		_36			45			54
	A10				U AUI		100	CTA	GIG	जट	CIG	TGG	CTC	CAG	TTA	AAC	TGG	GTG
	Met	t Ly	s Se	r Le	u Se	r Val	Ser	Leu	Val	Val	Leu	Тгр	Leu	Gln	Leu	Asn	Trp	Val
		.	6.			72			81			90			99			108
	CAG	AG	C CA	G CA	G AA	ब ज	CAG	CAG	AGC	CCA	GAA	TCC	CTC	AGT	GTC	CCA	GAG	GGA
	Gln	Sei	r Gl	n Gl	n Ly:	s Val	Gln	Gln	Ser	Pro	Glu	Ser	Leu	Ser	Val	Pro	Glu	Gly
					_				135			144			153			162
	GGC	ATO	G GC	כ דכ	ד כדנ	AAC	TGC	ACT	TCA	AGT	GAT	CGC	AAT	Ш	CAG	TAT	TTC	TGG
	Gly	Met	Al	s Se	r Lei	Asn	Cvs	The	Ser	Ser	A'SD	Ara	Asn	Pho	61 n	 Tv-		
•	•												7311	LIIG	GIII	ıyı	rne	ırp
	TGG	TAC	171			180			189			198			207			216
			. AU/	4 CA	J (A)	TCT	GGA	GAA	GGC	CCC	AAA	GCA	CTG	. ATG	TCC	ATC	πς	TCT
	Trp	Tyr	· Arg	g Gli	n His	Ser	Gly	Glu	Gly	Pro	Lys	Ala	Leu	Met	Ser	Ile	Phe	Ser
			225									252			261			270
	GAT	GGT	GAC	I AAC	G AAA	GAA	GGC	AGA	TTC	ACA	GCT	CAC	CTC	AAT	AAG	GCC	AGC	CTG
	ASD	Glv	Asc	Lvs	Lvs	Glu	61 v	Ara	Pho	The	Ala	H1c	Lou	A = =				
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٠	CAT	CTT	279			288			297			306			315		•	324
			100		CAC	ATC	AGA	GAC	TCC	CAG	CCC	AGT	GAC	TCC	GCT	CTC	TAC	ΠC
F	His	Val	Ser	Leu	His	Ile	Arg	Asp	Ser	Gln	Pro	Ser	Asp	Ser	Ala	Leu	Tyr	Phe
Ħ	T.C.T		333			342			351			360			36 9			378
ĺ±	IGI	GCA	GIT	ATG	GAT	TAT	AAC	CAG	GGG	AAG	CTT	ATC	ш	GGG	CAG	GGT	ACC	AAG
j	Çys	Ala	Val	Met	Asp	Туг	Asn	Gln	Gly	Lys	Leu	Ile	Phe	Gly	Gln	Gly	Thr	 Lys
IŲ.			387															
	TTA	TCT	ATC	AAG	CCC	3'												

ange: 1 - 4 odon Table : Universal

. : Normal

		9			_18			27			36			45			54
ATG	GGC	TCC	AGA	CTC	πς		GTG	GTT	TTG	AŢŢ	CTC	CTG	TGT	GCA	AAA	CAC	ATG
Met	Gly	Ser	Arg	Leu	Phe	Phe	Val	Val	Leu	Ile	Leu	Leu	Cys	Ala	Lvs	His	Met
		63			72												
GAG	GCT		GTC	ACC			CCA	AGA	AGC	AAG	GTG	GCA	GTA	99 ACA	GGA	GGA	108 AAG
Glu	Ala	Ala	Val	Thr	Gln	Ser	Pro	Arg	Ser	Lys	Val	Ala	 Val	Thr	Gly	Gly	Lys
		117			126			135			144			153			162
GTG	ACA		AGC	TGT			ACT	AAT	AAC	CAT	GAC	TAT	ATG	TAC	TGG	TAT	CGG
Val	Thr	Leu	Ser	Cvs	His	Gln	The	 Азл	Asn	His	Asp	Tvr	Met	Tyr	Tro	Tur	Arg
				-,-				•				_	_	_	-	•	_
CAG	GAC	171 ACG	GGG	CAT				189 CTG							GCT		216 AGC
Gln	Asp	Thr	Gly	His	Gly	Leu	Arg	Leu	Ile	His	Туг	Ser	Tyr	Val	Ala	Asp	Ser
		225		_							252			261			270
ACG	GAG	AAA	GGA	GAT	ATC	CCT	GAT	GGG	TAC	AAG	GCC	TCC	AGA	CCA	AGC	CAA	GAG
Thr	Glu	Lys	Gly	Asp	Ile	Pro	Asp	Gly	Tyr	Lys	Ala	Ser	Arg	Pro	Ser	Gln	Glu
		279			288			79 7			306			315			324
AAT	TTC		CTC	ATT		GAG	TTG	GCT	TCC	стт	TCT	CAG	TCA	GCT	GTA	TAT	TTC
								Ala									
7311	1116		Leu	716										ALG	Val	ıyr	rne
TGT	הכר	333 AGC	ÁGC	GAT		GCC		351 ACA	ccc			TAT		369		ПС	378
Cys	Ala	Ser	Ser	Asp	Phe	Ala	Gly	Thr	Gly	Gly	Phe	Tyr	Glu	Gln	Tyr	Phe	Gly
		387			396												
CCC	GGC	ACC	AGG	CTC	ACG	GΠ	TCT	3'									
Pro	Gly	Thr	Arg	Leu	Thr	Val	Ser										



Ref:

PBJIMEO - MCB 8: 466,1988

Polylinker- Science, 249: 677, 1990

